Lightweight Modular Surveillance Radar



Date Revised: 03 APR 03

VENDOR DESCRIPTION

The LMSR40 is a low power, Ku-Band, pulse Doppler, moving target indicator (MTI) radar ideally suited for any application where surveillance of large areas is required in short periods of time. This ground-based radar can be tripod mounted for man-portable applications or mast mounted for use on vehicles. Typical applications include border surveillance, site monitoring, battlefield forward area surveillance, reconnaissance, and fire control support. The LMSR40 provides adverse weather, day/night, and wide area surveillance capability.





Flat Plate Antenna

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System Characteristics		
Technology	LPI	
Operating Frequency	Agile, 16.0 - 16.5 GHz	
Weight (w/batteries)	25 kg or 55.6 lbs	
Transmit Power	Solid State, 7W	
Temperature	Operating -40°C to +68°C Storage -57°C to +85°C	
Antenna	37dB, Parabolic Horizontal Polarization	
Processing	FFT CFAR	
Data/Control Interface	RS-232, RS-422	
Scan Rate	0-16°/sec	
Coverage	Azimuth Sector Scan 0 to ±180°	
Target Classification	Audio	
Input Power	23-33 VDC, 160 W	
Continuous Operations on Single Set of Batteries	1 hr	

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Performance Characteristics		
Detection Range	Personnel Vehicles	12 km 40 km
Accuracy	Range Azimuth	50 m 10 mils
Max. Remote Distance	100 m	
Detect Artillery Round Impacts	Yes	
Target Capacity	200/sec	
Minimum Detectable Radial Velocity	0.42 m/sec	
Options		
GPS and Flux Gate Compass Ethernet Remote Interface Wireless Remote Operation		